

# WST2

The Washington State Department of Transportation's  
Highways & Local Programs and WST2 Center present:

## ***Troubleshooting Roundabout Design***

**September 19-20, 2006** (#1199)

**Shoreline Conference Center, McAleer Room  
18560 1<sup>st</sup> Avenue N.E., Shoreline, WA 98155  
(206) 368-4122**

~~**September 26-27, 2006**~~ (#1200)

**Class is cancelled**

**WSDOT Pasco Maintenance Facility  
1812 North 4<sup>th</sup> Avenue, Pasco, WA 99301  
(509) 577- 1933**

**April 24-25, 2007** (#1272)

**Moses Lake – location TBD**

(The phone numbers above can be used in case of emergency to contact a student in the class.)

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**Cost: \$250**

**Time: 8:00 am to 5:00 pm**

**Class Size: Minimum enrollment is 20 students per location, maximum class size of 35**

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### ***Instructors***

Patrick McGrady and Rachel Price, Reid Middleton, Inc. Patrick and Rachel are civil/transportation engineers with 13 and 5 years experience respectively in roundabout analysis and design. Their roundabout experience includes public involvement, establishing design criteria, evaluating roundabout feasibility, conceptual layouts, traffic analysis, and full PS&E. In addition to participating in the WSDOT Roundabout Task Force they are annual guest lecturers on roundabouts at the University of Washington. Patrick has made roundabout presentations at the 83rd Annual Transportation Research Board Meeting in Washington DC, Oregon State APWA Conference, Oregon ITE Technical Session, WSDOT Northwest Region Design Construction Conference, Washington ITE Annual Meeting and others. Patrick and Rachel continually provide one and three-day roundabout design and roundabout plan review training to the California Department of Transportation (Caltrans) and has recently conducted classes in British Columbia for the Canadian Traffic Safety Institute.

### ***Course Description***

Students will participate in hands-on roundabout design. Exercises include site specific conditions that influence the choice of roundabout control. Students will troubleshoot roundabout designs to identify and remove fatal flaws and refine the design for safe efficient traffic operations. The instructors will show how to establish a balance between design elements and avoid common pitfalls in single and multi-lane roundabout design that rob capacity and contribute to collisions.



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In addition the class will offer roundabout plan review exercises, detailed design exercises, and cover challenges and solutions of multi-lane roundabout design. The class will also include how to assemble roundabout plans to ensure clear communication of critical dimensions and features.

## ***Course Objectives***

The course will highlight that it is the responsibility of the designer to distinguish negotiable and non-negotiable elements in roundabout design and how these elements interact to produce the desired driver behavior through the intersection. Students will achieve a basic understanding that a strict adherence to roundabout design standards does not guarantee a safe and efficient design.

## ***Target Audience***

Traffic analysts, roadway designers, staff that are part of plan review for roundabout or roadway design, and their immediate supervisors.

**Questions?** Contact Laurel Gray at (360) 705-7355 or [GrayL@wsdot.wa.gov](mailto:GrayL@wsdot.wa.gov).

## ***Class Registration***

Please register on-line using this link: [On-line Registration Form](http://fmapps.wsdot.wa.gov/tbase_registration/), or key this web address into your browser: [http://fmapps.wsdot.wa.gov/tbase\\_registration/](http://fmapps.wsdot.wa.gov/tbase_registration/).

Fill in the requested information, select your class from the drop-down menu, then press "Submit." You will receive an e-mail notification with driving directions to the training site when we process your request.

**If you do not receive this e-mail notification within a day or two, you may not be registered and should contact us by phone.**

Confirmation letters will be mailed three weeks before the class, and invoices will be mailed to your accounting office. If you are unable to attend, someone else from your agency may attend in your place. To cancel your registration, or for assistance with registration, e-mail [wst2center@wsdot.wa.gov](mailto:wst2center@wsdot.wa.gov) or [schmidw@wsdot.wa.gov](mailto:schmidw@wsdot.wa.gov) or phone (360) 705-7386.

(Disability accommodations provided upon request.)

**Washington State Technology Transfer Center's Web Page:**

[www.wsdot.wa.gov/TA/T2Center/t2hp.htm](http://www.wsdot.wa.gov/TA/T2Center/t2hp.htm)



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